

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: May 7, 2002, 12:08:25 ; Search time 54.19 Seconds  
(without alignments)  
345.504 Million cell updates/sec

Title: US-09-772-103-8  
 Perfect score: 655  
 Sequence: 1 MDFQVIFSFLLISAVLS.....CQWSSVPLTGGGTVKEIK 128

Scoring table: BLOSUM62

Searched: 473505 seqs, 146272329 residues  
Total number of hits satisfying chosen parameters: 473505

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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database :
SPTREMBL_17:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	436.5	66.6		108	4	Q9UL77	Q9UL77 homo sapien
2	438.5	65.4		108	4	Q9UL70	Q9UL70 homo sapien
3	417	63.7		107	4	Q9UL81	Q9UL81 homo sapien
4	411	62.7		106	5	Q9UL410	Q9UL410 schistosoma
5	410.5	62.7		108	4	Q9UL79	Q9UL79 homo sapien
6	387.5	59.2		298	11	Q9QYF0	Q9QYF0 mus musculus
7	387	59.1		109	4	Q9UL78	Q9UL78 homo sapien
8	386.5	59.0		107	11	Q9JL84	Q9JL84 mus musculus
9	379.5	57.9		214	11	Q9JL85	Q9JL85 mus musculus
10	375	57.3		109	4	Q9UL85	Q9UL85 mus musculus
11	372.5	56.9		37	11	Q9JL76	Q9JL76 mus musculus
12	364.5	55.6		108	4	Q9UL83	Q9UL83 homo sapien
13	361.5	55.2		101	11	Q9JL78	Q9JL78 mus musculus
14	361	55.1		109	4	Q9UL86	Q9UL86 mus musculus
15	341	52.1		238	11	Q9SM37	Q9SM37 mus musculus
16	326.5	49.8		107	11	Q9ERZ9	Q9ERZ9 mus musculus
17	321.5	49.1		99	11	Q9UL74	Q9UL74 mus musculus
18	319.5	48.8		103	11	Q9JL80	Q9JL80 mus musculus
19	309	47.2		104	11	Q9JL82	Q9JL82 mus musculus

20	297.5	45.4	114	4	Q9UL80	Q9ul80	homo sapien
21	294.5	45.0	109	6	Q9NSW5	Q9n0w5	oryctolagus
22	241	36.8	107	4	Q9NSD6	Q9nsd6	homo sapien
23	236.5	36.1	107	4	Q9UL82	Q9ul82	homo sapien
24	206	31.5	235	11	Q9RM11	Q9rm11	mus musculus
25	198	30.2	109	11	Q9EP13	Q9et13	mus musculus
26	189.5	28.9	130	4	Q9NP29	Q9np29	homo sapien
27	171.5	26.2	93	4	Q9UL76	Q9ul76	homo sapien
28	165	25.2	135	4	Q9HS24	Q9h524	homo sapien
29	152.5	23.3	337	13	Q9IB02	Q9ib02	spherooides
30	142	21.7	334	13	Q9IB05	Q9ib05	spherooides
31	138.5	21.1	509	11	Q08907	Q08907	mus musculus
32	136.5	20.8	509	11	Q09X57	Q9qx57	mus musculus
33	136.5	20.8	513	11	P97797	P97797	mus musculus
34	132.5	20.2	509	11	Q9WNT4	Q9wtn4	mus musculus
35	130.5	19.9	123	11	Q61243	Q61243	mus musculus
36	130.5	19.9	342	13	Q9IB00	Q9ib00	spherooides
37	125	19.1	122	4	Q99603	Q99603	homo sapien
38	125	19.1	137	4	Q9UDR1	Q9udr1	homo sapien
39	124.5	19.0	168	4	Q9UQ56	Q9uq56	homo sapien
40	121	18.5	122	4	Q99604	Q99604	homo sapien
41	121	18.5	509	11	Q9QW15	Q99604	homo sapien
42	117.5	17.9	140	13	Q9VHF9	Q9qwl5	rattus norv
43	117.5	17.9	185	4	Q95775	Q9yhf9	ginglymosto
44	117.5	17.9	361	4	Q9H105	Q95775	homo sapien
45	117	17.9	503	4	P78324	Q9h1u5	homo sapien

## ALIGNMENTS

DR HSSP; P80362; 1WTL.  
DR InterPro; IPR003006; Ig\_MHC.  
DR InterPro; IPR003596; Ig\_v.  
DR Pfam; PF00047; Ig; 1.  
DR SMART; SM00406; IGv; 1.  
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ET NON\_TER 107  
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Best Local Similarity 79.4%; Pred. No. 7.7e-34;  
Matches 85; Conservative

QY 23 DIQMOTSPSLASVGDRTITCSATSSIT-YMSWYQQKPKAPKLLIYDTSNLASGVPS 81  
DB 1 DIQMOTSPSLASVGDRTITCRASQSISNLYNQKPGKAPNLLIYAASSLQSGVPS 60  
NCBI\_TaxID=9606;

[1]  
SEQUENCE FROM N.A.  
MEDLINE=98277139; PubMed=9614934;  
Wu X., Liu B., Van der Merwe P.L., Kallis N.N., Berney S.M.,  
Young D.C.;  
"Myosin-reactive autoantibodies in rheumatic carditis and normal fetus";  
Clin. Immunol. Immunopathol. 87:184-192(1998).  
-!- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX DOMAIN.

EMBL; AF035044; AAD56280.1; -.  
HSSP; P01607; 1REP.  
InterPro; IPR003006; Ig\_MHC.  
InterPro; IPR003596; Ig\_v.  
Pfam; PF00047; Ig; 1.  
DR SMART; SM00406; IGv; 1.  
FT NON\_TER 1  
ET NON\_TER 108  
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Query Match 65.4%; Score 428.5; DB 4; Length 108;  
Best Local Similarity 78.5%; Pred. No. 5.7e-35;  
Matches 84; Conservative 9; Mismatches 13; Indels 1; Gaps 1;

QY 23 DIQMOTSPSLASVGDRTITCSATSSIT-YMSWYQQKPKAPKLLIYDTSNLASGVPS 81  
DB 1 DIQMOTSPSLASVGDRTITCRASQISNLYNQKPGKAPKLLIYAASSLQSGVPS 60  
NCBI\_TaxID=9606;

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EMBL; AF035044; AAD56280.1; -.  
HSSP; P01607; 1REP.  
InterPro; IPR003006; Ig\_MHC.  
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DR SMART; SM00406; IGv; 1.  
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Best Local Similarity 78.5%; Pred. No. 5.7e-35;  
Matches 84; Conservative 9; Mismatches 13; Indels 1; Gaps 1;

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QY 23 DIQMOTSPSLASVGDRTITCSATSSIT-YMSWYQQKPKAPKLLIYDTSNLASGVPS 81  
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-!- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX DOMAIN.

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DB 1 DIQMOTSPSLASVGDRTITCRASQISNLYNQKPGKAPKLLIYAASSLQSGVPS 60  
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-!- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX DOMAIN.

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Query Match 65.4%; Score 428.5; DB 4; Length 108;  
Best Local Similarity 78.5%; Pred. No. 5.7e-35;  
Matches 84; Conservative 9; Mismatches 13; Indels 1; Gaps 1;

QY 23 DIQMOTSPSLASVGDRTITCSATSSIT-YMSWYQQKPKAPKLLIYDTSNLASGVPS 81  
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QY 23 DIQMOTSPSLASVGDRTITCSATSSIT-YMSWYQQKPKAPKLLIYDTSNLASGVPS 81  
DB 1 DIQMOTSPSLASVGDRTITCRASQISNLYNQKPGKAPKLLIYAASSLQSGVPS 60  
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Clin. Immunol. Immunopathol. 87:184-192(1998).  
-!- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX DOMAIN.

EMBL; AF035044; AAD56280.1; -.  
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QY 23 DIQMOTSPSLASVGDRTITCSATSSIT-YMSWYQQKPKAPKLLIYDTSNLASGVPS 81  
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SEQUENCE FROM N.A.  
MEDLINE=98277139; PubMed=9614934;  
Wu X., Liu B., Van der Merwe P.L., Kallis N.N., Berney S.M.,  
Young D.C.;  
"Myosin-reactive autoantibodies in rheumatic carditis and normal fetus";  
Clin. Immunol. Immunopathol. 87:184-192(1998).  
-!- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX DOMAIN.

EMBL; AF035044; AAD56280.1; -.  
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AC Q9UL79;  
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 DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)  
 DT 01-JUN-2001 (Tremblrel. 17, Last annotation update)  
 DE MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION (FRAGMENT).  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
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 RX MEDLINE=98277139; PubMed=9614934;  
 RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,  
 RA Young D.C.;  
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal  
 RL fetus";  
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).  
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 Db 1 DIVMTQSPSSLSASVGDRTVITCSATSI--TYMSWYQKPGKAPKLLIYDTSNLSGVPS 81  
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 DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)  
 DE 01-JUN-2001 (Tremblrel. 17, Last annotation update)  
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 GN 8  
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 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX STRAIN=BALE/C; TISSUE=SPLEEN;  
 RA Shinohara N., Demura T., Fukuda H.;  
 RL Submitted (DEC-1999) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX STRAIN=BALE/C; TISSUE=SPLEEN;  
 RA Shinohara N., Demura T., Fukuda H.;  
 RT "Isolation of a novel type of vascular cell wall-specific monoclonal  
 RT antibody recognizing a cell polarity using a phage display subtraction  
 RT method";  
 RL Submitted (DEC-1999) to the EMBL/GenBank/DBJ databases.  
 CC -1- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX  
 CC DOMAIN  
 DR EMBL; AB036341; BAA88633.1; -;  
 DR HSSP; P01607; IREL.

DR InterPro; IPR003006; Ig\_MHC.  
 DR InterPro; IPR003596; Ig\_V.  
 DR Pfam; PF00047; Ig\_2.  
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 Best Local Similarity 67.3%; Pred. No. 2e-30;  
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 AC Q9UL78;  
 DT 01-MAY-2000 (Tremblrel. 13, Created)  
 DT 01-MAY-2000 (Tremblrel. 13, Last sequence update)  
 DE 01-JUN-2001 (Tremblrel. 17, Last annotation update)  
 DE MYOSIN-REACTIVE IMMUNOGLOBULIN LIGHT CHAIN VARIABLE REGION (FRAGMENT).  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=98277139; PubMed=9614934;  
 RA Wu X., Liu B., Van der Merwe P.L., Kalis N.N., Berney S.M.,  
 RA Young D.C.;  
 RT "Myosin-reactive autoantibodies in rheumatic carditis and normal  
 RL fetus";  
 RL Clin. Immunol. Immunopathol. 87:184-192(1998).  
 CC -1- SIMILARITY: TO IMMUNOGLOBULIN AND MAJOR HISTOCOMPATIBILITY COMPLEX  
 CC DOMAIN  
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 DR HSSP; P01789; IMCP.  
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 Db 61 RFGSGSGTDYTLTISSLPEDFATYYCQWSSYPLTFGGGTVEIK 108  
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 AC Q9JL84;  
 DT 01-OCT-2000 (Tremblrel. 15, Created)  
 DT 01-OCT-2000 (Tremblrel. 15, Last sequence update)  
 DT 01-JUN-2001 (Tremblrel. 17, Last annotation update)





Search completed: May 7, 2002, 12:08:26  
Job time: 454 sec